DERWENT-ACC-NO: 2002-699687

DERWENT-WEEK: 200276

TITLE: Optical system for multifocal pick-up with object illuminating unit

PATENT-ASSIGNEE: SICK AG[SIOP]

PRIORITY-DATA: 2002DE-2007170 (May 7, 2002)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
DE 20207170 U1	August 14, 2002	N/A	008	G02B 007/28

APPLICATION-DATA:

PUB-NO	APPL-DESCRIPTOR	APPL-NO	APPL-DATE
DE 20207170U1	N/A	2002DE-2007170	May 7, 2002

INT-CL (IPC): G02B007/28

ABSTRACTED-PUB-NO: DE 20207170U

BASIC-ABSTRACT:

NOVELTY - The system comprises an **imaging** objective lens, a locally resolving photoelectric receiver, and a control and signal evaluator. The objects to be imaged are illuminated with different spectral light. The **imaging** objective lens is designed as a **multifocal** optical system which, dependent on the illumination mode, forms images of objects in a constant image plane from different object distances. In the region of pupil plane the system is divided into several segments with different refraction and spectral transmission capacity.

USE - For light switches controlling material flow, recognition code carriers,
monitoring dangerous motions, etc., and for autofocus camera systems.

ADVANTAGE - Sharp picture without need of changing focal length of distance
from objective lens.

DESCRIPTION OF DRAWING(S) - The single figure shows optical schema of **imaging**
system with **multifocal** objective lens.

CHOSEN-DRAWING: Dwg.1/1

DERWENT-CLASS: P81 S02 S03 S06 T05 U21

EPI-CODES: S02-C03; S02-C04C; S02-H; S03-C06; S06-B01A; T05-G02; U21-B02C3;

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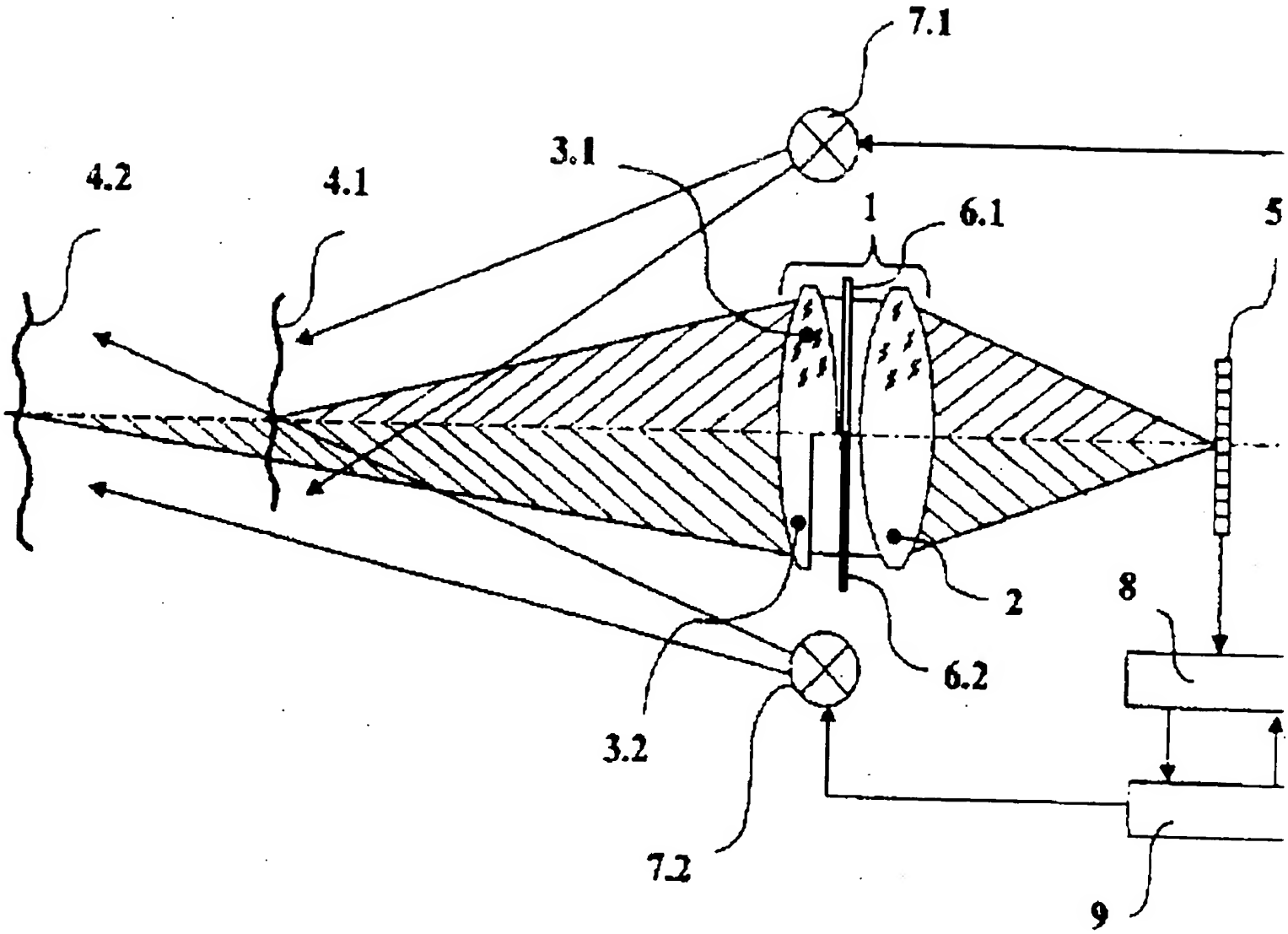
Basic Abstract Text - ABTX (1):
NOVELTY - The system comprises an **imaging** objective lens, a locally resolving photoelectric receiver, and a control and signal evaluator. The objects to be imaged are illuminated with different spectral light. The **imaging** objective lens is designed as a **multifocal** optical system which, dependent on the illumination mode, forms images of objects in a constant image plane from different object distances. In the region of pupil plane the system is divided into several segments with different refraction and spectral transmission capacity.

Basic Abstract Text - ABTX (4):
DESCRIPTION OF DRAWING(S) - The single figure shows optical schema of **imaging** system with **multifocal** objective lens.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